Stable aqueous solutions comprising titanium and zinc and process therewith

Description of Technology: This invention relates to a catalyst composition comprising a stable aqueous solution of organic titanium and zinc complexes and to a process for using the composition in, for example, esterification, transesterification, or polymerization of a carbonyl compound.

Patent Listing:

1. **US Patent No. 6,855,797**, Issued February 15, 2005, "Stable aqueous solutions comprising titanium and zinc and process therewith"

http://patft.uspto.gov/netacgi/nph-Parser?Sect2=PTO1&Sect2=HITOFF&p=1&u=%2Fnetahtml%2FPTO%2Fsearch-bool.html&r=1&f=G&l=50&d=PALL&RefSrch=yes&Query=PN%2F6855797

Market Potential: Polyesters such as, for example, polyethylene terephthalate, polytrimethylene terephthalate and polybutylene terephthalate, generally referred to as "polyalkylene terephthalates", are a class of important industrial polymers. They are widely used in thermoplastic fibers, films, and molding applications.
Polyalkylene terephthalates can be produced by transesterification of a dialkyl terephthalate ester with a glycol followed by polycondensation or by direct esterification of terephthalic acid with the selected glycol followed by polycondensation. A catalyst is used to catalyze the esterification, transesterification and/or polycondensation.

Benefits:

- Used as catalyst in esterification, transesterification, polycondensation, or combinations of two or more thereof

Applications:

- Catalyst composition comprising a stable aqueous solution of organic titanium and zinc complexes

Contact: Ken Anderson
Director, Entrepreneurial & Small Business Support, Delaware Economic Development Office (DEDO)
Carvel State Building, 820 French Street, Wilmington, DE, 19801
Phone: (302) 577-8496, Fax: (302) 577-8499, Email: Kenneth.R.Anderson@state.de.us